



03-11-04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Haugland, et al.)
Serial No.: 10/731,987) Examiner: Not Yet Assigned
Filed: December 9, 2003) Group Art Unit: Not Yet Assigned
For: **Pyrenyloxysulfonic Acid Fluorescent**)
Agents) **TRANSMITTAL LETTER**

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith are the following documents in the above-identified application.

- ☒ Information Disclosure Statement
- ☒ Substituted PTO Form 1449
- ☒ Cited References A1-A21, B1 and C1-C30
- ☒ Return Postcard (Postage prepaid)

In the event that the Patent Office determines that these documents were not timely filed within the three-month deadline, the Commissioner is hereby authorized to charge the **Deposit Account 13-3900** for any fees due in connection with the filing of this document according to § 1.17(p).

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED AS BEING ATTACHED OR ENCLOSED HEREWITH ARE BEING DEPOSITED WITH THE UNITED STATES POSTAL OFFICE ON 3/9/04 AS EXPRESS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX ALEXANDRIA, VA 22313-1450.
By Michael A. Sennett

Haugland, et al.
10/731,987

Respectfully submitted,

Date: March 9, 2004

Karen J. Anderson
Karen J. Anderson, Ph.D.
Reg. No. 51,061

Molecular Probes, Inc.
29851 Willow Creek Rd.
Eugene, Oregon, 97402
Phone: (541) 335-0203
Facsimile: (541) 335-0188



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Haugland, et al.)

Serial No.: 10/731,987)

Examiner: Not Yet Known

Filed: December 9, 2003)

Group Art Unit: Not Yet Known

For: **Pyrenyloxysulfonic Acid Fluorescent Agents**)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.97(b), the Information Disclosure Statement being transmitted herewith is being filed before the mailing date of the first Office Action on the merits and within three months from filing of the above-identified application.

The enclosed references may be material to the examination of the above-identified application. Applicants, respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. The Examiner is requested to initial and return the enclosed substituted PTO-1449 form in accordance with MPEP §609.

This Information Disclosure Statement pursuant to 37 CFR 1.97 is not to be construed as a representation that: (1) a search has been made or (2) the above information constitutes prior art to the subject invention. Accordingly, it is requested that the Examiner consider the enclosed references.

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING DEPOSITED WITH THE UNITED STATES POSTAL OFFICE ON 3/9/04 AS EXPRESS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX ALEXANDRIA, VA 22313-1450.
By Michael A. Sennett

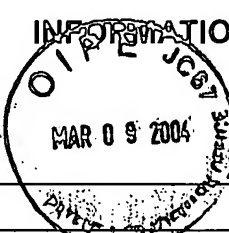
Haugland, et al.
10/731,987

Respectfully submitted,

Date: March 9, 2004

Koren J. Anderson
Koren J. Anderson, Ph.D.
Reg. No. 51,061

Molecular Probes, Inc.
29851 Willow Creek Rd.
Eugene, Oregon, 97402
Phone: (541) 335-0203
Facsimile: (541) 335-0188

Substitute for form 1449/PTO				Docket:		Ser: 10/731,987	
INFORMATION DISCLOSURE STATEMENT  BY APPLICANT				Applicant: Haugland, et al.			
				Filed: December 9, 2003		Group:	
U.S. PATENT DOCUMENTS							
Init.*	Cite No.	Number	Date	Name	Class	Sub	Filed
	A1	3,996,345	12/07/76	Ullman et al.			
	A2	4,374,120	02/15/83	Soini et al.			
	A3	4,420,568	12/13/83	Wang et al.			
	A4	4,510,251	04/09/85	Kirkemo et al.			
	A5	4,542,104	09/17/85	Stryer et al.			
	A6	4,711,955	12/08/87	Ward et al.			
	A7	4,997,928	03/05/91	Hobbs, Jr.			
	A8	5,047,519	09/10/91	Hobbs, Jr. et al.			
	A9	5,049,673	09/17/91	Tsien et al.			
	A10	5,132,432	06/21/92	Haugland et al.			
	A11	5,171,534	12/15/92	Smith et al.			
	A12	5,208,148	05/04/93	Haugland et al.			
	A13	5,332,666	06/26/94	Prober et al.			
	A14	5,362,628	11/08/94	Haugland et al.			
	A15	5,405,975	04/11/95	Kuhn et al.			
	A16	5,453,517	09/26/95	Kuhn et al.			
	A17	5,459,268	10/17/95	Haugland et al.			
	A18	5,576,424	11/19/96	Mao et al.			
	A19	5,648,270	07/15/97	Kuhn et al.			
	A20	5,686,261	11/11/97	Zhang et al.			
	A21	5,714,327	02/03/98	Houthoff et al.			
FOREIGN PATENT DOCUMENTS							
Init.*	Cite No.	Number	Date	Country	Class	Sub	Filed
	B1	WO 94/05688	03/17/94	WIPO			
NON PATENT LITERATURE DOCUMENTS							
Init.*	Cite No.	Name of Author, Title of the Article, Title of the Item, Date, Page, Volume-Issue Number					
	C1	Rinderknecht, H. (1960). "A new technique for the fluorescent labelling of proteins." <u>Experientia</u> 16 : 430-1.					
	C2	Braunitzer, G., H. Neuwirth, et al. (1971). "[Variants of the haeme complex: the amino acid residues in positions E7, E11 and F8 of an insect haemoglobin (erythrocrucorin)]." <u>Hoppe Seylers Z Physiol Chem</u> 352(5) : 757-8.					
EXAMINER:				DATE:			
*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.							

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Docket:	Ser: 10/731,987
	Applicant: Haugland, et al.	
	Filed: December 9, 2003	Group:

NON PATENT LITERATURE DOCUMENTS

Init.*	Cite No.	Name of Author, Title of the Article, Title of the Item, Date, Page, Volume-Issue Number
	C3	Malencik, D. A. and S. R. Anderson (1972). "Fluorescence polarization studies of the self-association of beef liver glutamate dehydrogenase." <u>Biochemistry</u> 11 (16): 3022-7.
	C4	Speth, M. and H. U. Schulze (1988). "On the nature of the interaction between 4,4'-diisothiocyanostilbene 2,2'-disulfonic acid and microsomal glucose-6-phosphatase. Evidence for the involvement of sulfhydryl groups of the phosphohydrolase." <u>Eur J Biochem</u> 174 (1): 111-7.
	C5	Khalaf, H. and M. Rimpler (1977). "[5-Isothiocyanato-1,8-naphthalenedicarbox-4-methylphenylimide, a new fluorescence reagent for compounds containing amino groups (author's transl)]." <u>Hoppe Seylers Z Physiol Chem</u> 358 (4): 505-11.
	C6	Cornelisse, C. J. and J. S. Ploem (1976). "A new type of two-color fluorescence staining for cytology specimens." <u>J Histochem Cytochem</u> 24 (1): 73-81.
	C7	Staines, W. A., B. Meister, et al. (1988). "Three-color immunofluorescence histochemistry allowing triple labeling within a single section." <u>J Histochem Cytochem</u> 36 (2): 145-51.
	C8	Kanaoka, Y. (1977). "Organic fluorescence reagents in the study of enzymes and proteins." <u>Angew Chem Int Ed Engl</u> 16 (3): 137-47.
	C9	Braunitzer, G., B. Schrank, et al. (1973). "[On epsilon-labelling of peptides: automatic sequence analysis of insulin (author's transl)]." <u>Hoppe Seylers Z Physiol Chem</u> 354 (12): 1563-6.
	C10	Khalfan, H., R. Abuknesha, et al. (1983). "Fluorogenic method for the assay of proteinase activity with the use of 4-methylumbelliferyl-casein." <u>Biochem J</u> 209 (1): 265-7.
	C11	Khalfan, H., R. Abuknesha, et al. (1986). "Aminomethyl coumarin acetic acid: a new fluorescent labelling agent for proteins." <u>Histochem J</u> 18 (9): 497-9.
	C12	Helgason, E., O. A. Okstad, et al. (2000). "Bacillus anthracis, Bacillus cereus, and Bacillus thuringiensis-one species on the basis of genetic evidence." <u>Appl Environ Microbiol</u> 66 (6): 2627-30.
	C13	Jiang, S. C., M. Matte, et al. (2000). "Genetic diversity of clinical and environmental isolates of Vibrio cholerae determined by amplified fragment length polymorphism fingerprinting." <u>Appl Environ Microbiol</u> 66 (1): 148-53.
	C14	Greene, T. W. and P. G. M. Wuts. (1991). <u>Protective Groups in Organic Synthesis</u> .
	C15	Hemmila, I. (1985). "Fluoroimmunoassays and immunofluorometric assays." <u>Clin Chem</u> 31 (3): 359-70.
	C16	Jolley, M. E., S. D. Stroupe, et al. (1981). "Fluorescence polarization immunoassay. I. Monitoring aminoglycoside antibiotics in serum and plasma." <u>Clin Chem</u> 27 (7): 1190-7.
	C17	Berge, S. M., L. D. Bighley, et al. (1977). "Pharmaceutical salts." <u>J Pharm Sci</u> 66 (1): 1-19.
	C18	Heidelberg, J. F., J. A. Eisen, et al. (2000). "DNA sequence of both chromosomes of the cholera pathogen Vibrio cholerae." <u>Nature</u> 406 (6795): 477-83.
	C19	Raju, B., E. Murphy, et al. (1989). "A fluorescent indicator for measuring cytosolic free magnesium." <u>Am J Physiol</u> 256 (3 Pt 1): C540-8.
	C20	Weber, G. (1952). "Polarization of the fluorescence of macromolecules. I. Theory and experimental method." <u>Biochem J</u> 51 (2): 145-55.
	C21	Wolfbeis, O. S., (1985). "Acid-Base Titrations Using Fluorescent Indicators and Fiber Optical Light Guides." <u>Fresenius Z Anal Chem</u> 320 :271-273.
	C22	Barzilay, M., S. Ship, et al. (1979). "Anion transport in red blood cells. I. Chemical properties of anion recognition sites as revealed by structure-activity relationships of aromatic sulfonic acids." <u>Membr Biochem</u> 2 (2): 227-54.
	C23	Brinkley, M. (1992). "A brief survey of methods for preparing protein conjugates with dyes, haptens, and cross-linking reagents." <u>Bioconjug Chem</u> 3 (1): 2-13.
EXAMINER:		DATE:

*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.

Substitute for form 1449/PTO		Docket:	Ser: 10/731,987
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Haugland, et al.	
		Filed: December 9, 2003	Group:
NON PATENT LITERATURE DOCUMENTS			
Init.*	Cite No.	Name of Author, Title of the Article, Title of the Item, Date, Page, Volume-Issue Number	
	C24	Browning, J. and A. Ribolini (1989). "Studies on the differing effects of tumor necrosis factor and lymphotoxin on the growth of several human tumor lines." <u>J Immunol</u> 143 (6): 1859-67.	
	C25	Joshi, S. and R. Burrows (1990). "ATP synthase complex from bovine heart mitochondria. Subunit arrangement as revealed by nearest neighbor analysis and susceptibility to trypsin." <u>J Biol Chem</u> 265 (24): 14518-25.	
	C26	Park, L. S., D. Friend, et al. (1986). "Characterization of the cell surface receptor for a multi-lineage colony-stimulating factor (CSF-2 alpha)." <u>J Biol Chem</u> 261 (1): 205-10.	
	C27	Jung, S. M. and M. Moroi (1983). "Crosslinking of platelet glycoprotein Ib by N-succinimidyl(4-azidophenylthio)propionate and 3,3'-dithiobis(sulfosuccinimidyl propionate)." <u>Biochim Biophys Acta</u> 761 (2): 152-62.	
	C28	Bouizar, Z., M. Fouchereau-Peron, et al. (1986). "Purification and characterization of calcitonin receptors in rat kidney membranes by covalent cross-linking techniques." <u>Eur J Biochem</u> 155 (1): 141-7.	
	C29	Furniss et al. (eds.), <u>Vogel's Textbook of Practical Organic Chemistry</u> , 5th Ed., Longman Group UK Ltd., Essex, 1989, pp.809-816.	
	C30	Haugland, R. P. (2002). <u>Handbook of Fluorescent Probes and Research Products</u> . CD ROM	
EXAMINER:		DATE:	
*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.			